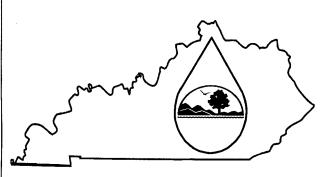
A1-1601



# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM ELIMINATION SYSTEM BY KPUES BRAKER

2005 OCT 31 P 2: 58

### **PERMIT APPLICATION**

This is an application to: (check or	ne)	A complete application	consists of this form and one of the				
Apply for a new permit.		following:					
Apply for reissuance of expi	ring permit.		C, Form F, or Short Form C				
Apply for a construction per	mit.	,					
☐ Modify an existing permit.		For additional informa	ation contact: UNK 420				
Give reason for modification	n under Item II.A.	KPDES Branch (502)	564-3410				
		AGENCY					
I. FACILITY LOCATION AND	<b>CONTACT INFORMATION</b>	USE O	000031116				
A. Name of business, municipality, compar	ny, etc. requesting permit						
North American Refractories Company							
B. Facility Name and Location		C. Facility Owner/Ma	iling Address				
Facility Location Name:		Owner Name:					
North American Refractories Company - S	outh Shore Plant	North American Refractori	es Company				
Facility Location Address (i.e. street, road,	etc.):	Mailing Street:	cs company				
US Highway 23		400 Fairway Drive					
Facility Location City, State, Zip Code:		Mailing City, State, Zip Co	ode:				
South Shore, KY 41175-0457		Moon Township, PA 15108	8				
		Telephone Number:					
		412-375-6600					
II. FACILITY DESCRIPTION							
A. Provide a brief description of	activities, products, etc: Producti	on of refractory brick and	d shapes to be consumed by the steel and				
glass industries							
B. Standard Industrial Classification	on (SIC) Code and Description						
Principal SIC Code &							
Description:	2297 Non-Clay Refractories						
Other SIC Codes:	3255 Clay Refractories						
III. FACILITY LOCATION							
A. Attach a U.S. Geological Surve	y 7 ½ minute quadrangle map for	the site. (See instruction	s)				
B. County where facility is located		City where facility is loc					
Greenup		South Shore	· 11				
C. Body of water receiving dischar	·ge:						
Tygarts Creek							
D. Facility Site Latitude (degrees,		E 111 OL 7 L 1					
038-43-30	minutes, seconds):	Facility Site Longitude (	(degrees, minutes, seconds):				
030-43-30	minutes, seconds):	Facility Site Longitude (082-57-30	(degrees, minutes, seconds):				
030-43-30	minutes, seconds):	,	(degrees, minutes, seconds):				
E. Method used to obtain latitude &	,	,	(degrees, minutes, seconds):				
	& longitude (see instructions):	082-57-30	(degrees, minutes, seconds):				

IV. OWNER/OPERATOR INFORMATI	ION		
A. Type of Ownership:	.011		
Publicly Owned Privately Owned	ed 🗌 State Owned 🗆	Both Public and Pri	vate Owned  Federally owned
B. Operator Contact Information (See instru	uctions)		
Name of Treatment Plant Operator:		Telephone Number:	
Matt Flaugher		606-932-3131	
Operator Mailing Address (Street): US Highway 23			
Operator Mailing Address (City, State, Zip Code): South Shore, KY 41175-0457			
Is the operator also the owner?			If yes, list certification class and number below.
Yes No 🛛		Yes No	
Certification Class:		Certification Number:	
V. EXISTING ENVIRONMENTAL PER	MITS		
Current NPDES Number:	Issue Date of Current Perm	nit:	Expiration Date of Current Permit:
KY0000311	5/1/2001		4/20/2007
Number of Times Permit Reissued:	Date of Original Permit Iss	suance:	4/30/2006 Sludge Disposal Permit Number:
		walles.	Stadge Disposar Ferrita Nameer.
12 Kentucky DOW Operational Permit #:	7/1/1971		N/A
Kentucky DOW Operational Permit #:	Kentucky DSMRE Permit	Number(s):	
N/A	N/A		
C. Which of the following additional environment	nmental permit/registra	tion categories will al	so apply to this facility?
CATEGORY	EXISTING PER	MIT WITH NO.	PERMIT NEEDED WITH PLANNED APPLICATION DATE
Air Emission Source	0-84-226, S-98-071		N/A
Solid or Special Waste	N/A		
Hazardous Waste - Registration or Permit	KYD084202736		N/A
riazardous waste - Registration of Fernit	K1D004202730		IV/A
	A4 - 1		
VI. DISCHARGE MONITORING REPO	ORTS (DMRs)		
KPDES permit holders are required to sub- permit). The information in this section serv for submitting DMR forms to the Division o	es to specifically identi	ision of Water on a fy the department, off	regular schedule (as defined by the KPDES fice or individual you designate as responsible
A. Name of department, office or official su	bmitting DMRs:	Harry D. McElrath,	Plant Manager
B. Address where DMR forms are to be sent	t. (Complete only if add	lress is different from	mailing address in Section I.)
DMR Mailing Name:			
DMR Mailing Street:			
DMR Mailing City, State, Zip Code:			
DMR Official Telephone Number:			

VII.	APPI	ICA	TION	FH	ING	FEE

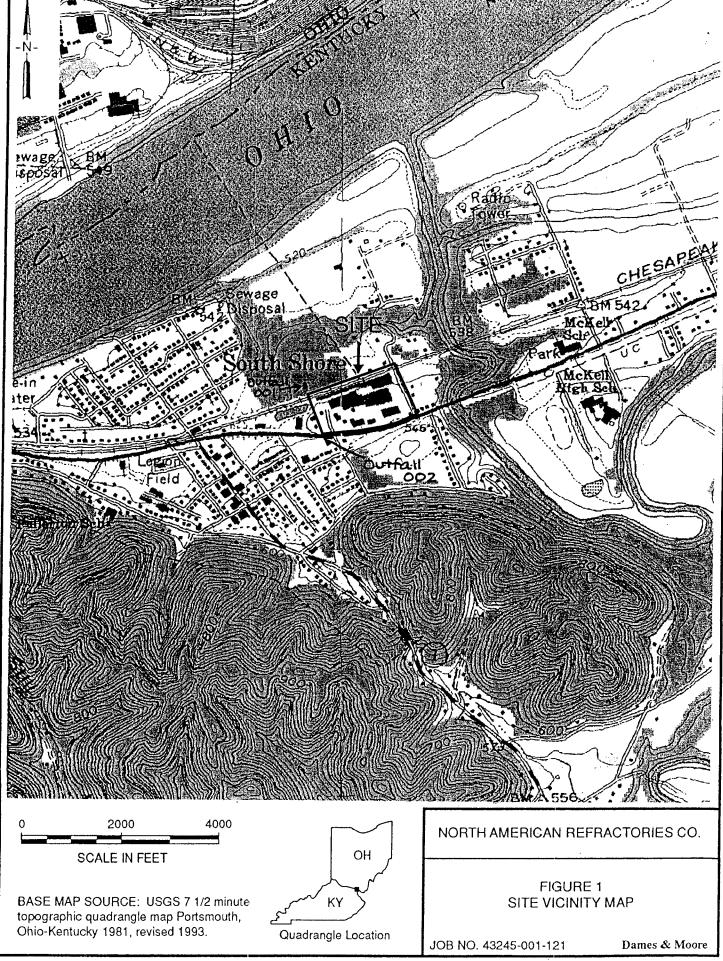
KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

Facility Fee Category:	Filing Fee Enclosed:
Minor Industry	\$420.00

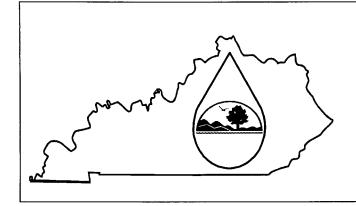
#### VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Michael A. Schalk, Corporate Secretary	412-375-6701
SIGNATURE	DATE:
1 A Scere	0ct 28, 200r



### **KPDES FORM C**



# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

2005 007 31 P 2:58

#### PERMIT APPLICATION

A complete application consists of this form and Form 1. For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility: North American Refractories Company	County: Greenup							
I. OUTFALL LOCATION	AGENCY USE							

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

Outfall No.		LATITUDE			LONGITUDE	3	
(list)	Degrees	Minutes Second		Degrees	Degrees Minutes		RECEIVING WATER (name)
001	038	43	30	082	57	30	Tygarts Creek
002	038	43	26	082	57	27	Tygarts Creek

#### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

OUTFALL NO.	OPERATION(S) CONTRIBUTIN	TREATMENT			
(list)	Operation (list)	Avg/Design Flow (include units)	Description	List Codes from Table C-1	
001	Monolithics operations, slip cast operations, casting operations (process water, mixer washouts, floor washing, etc.)	approx. 1,250 gpd avg. flow	Cascading settling container, sedimentation pit, flocculation, neutralization, plate & frame filter press, aerobic digestion, clarifier	1-U, 1-U, 1-G, 2-K, 5R, 5A, 1U	
001	Finish grinding operations (process water, machine wash downs)  Design flow aerobic waste treatment unit	approx. 2,250 gpd avg. flow (5000 gpd)	sedimentation pit, flocculation, neutralization, plate & frame filter press, aerobic digestion, clarifier	1-U, 1-G, 2-K, 5R, 5A, 1U	
001	Storm water runoff	intermittent	none	4-A	
002	Storm water runoff	intermittent	none	4-A	

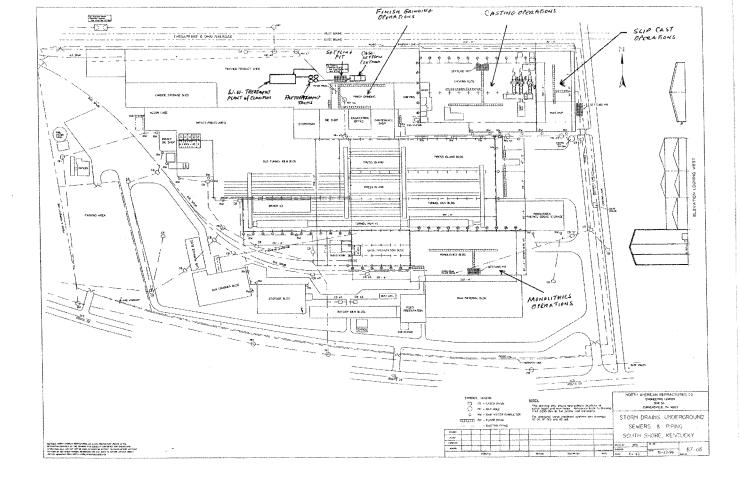
II. FLOWS	, SOURCES OF POL	LUTION,	AND TREA	ATMENT T	<b>TECHNOLOGIE</b>	S (Continued	l)		
C. Except for	storm water runoff, le	aks, or spills	s, are any of	f the dischar	ges described in I	ems II-A or E	3 intermittent or	seasonal?	
	Yes (Complete the	following t	able.)		⊠ No (Go	to Section III	.)		
OUTFALL	OPERATIONS	FREQU	JENCY			FLOW			
NUMBER	CONTRIBUTING FLOW	Days Per Week	Months Per Year	_	low Rate (in mgd)		al volume y with units)	Duration (in days)	
(list)	(list)	(specify average)	(specify average)	Long-Terr Average	n Maximum Daily	Long-Term Average	Maximum Daily		
ı									
ı									
III. MAXIN	MUM PRODUCTION								
A. Does an	effluent guideline limit	ation promu	lgated by E	PA under S	ection 304 of the G	Clean Water A	act apply to you	r facility?	
	Yes (Complete Ite	m III-B) Lis	st effluent g	uideline cate	egory:				
$\boxtimes$	No (Go to Section	IV)							
B. Are the li	imitations in the applic	able effluen	t guideline	expressed in	terms of producti	on (or other n	neasures of oper	ration)?	
	Yes (Complete Ite	m III-C)		No (Go	to Section IV)				
C. If you are production	nswered "Yes" to Iter on, expressed in the ter	n III-B, list	the quanti s used in the	ty which re applicable	epresents the actu effluent guideline	al measurement, and indicate	ent of your ma the affected out	ximum level of falls.	
		MAXIMU	M QUANT	ITY				Outfalls	
Quantity Pe	r Day Units of	Measure	0	peration, F	roduct, Material (specify)	, Etc.	(list outfall numbers)		
IV. IMPRO	OVEMENTS								
A. Are you	now required by any	y federal, s	tate or loc	al authority	to meet any im	plementation	schedule for t	he construction,	
upgradin	g, or operation of wa	astewater ed	quipment o Chis include	r practices	or any other env	ironmental p	rograms which administrative	or enforcement	
orders, e	nforcement compliance	e schedule le	etters, stipul	ations, cour	t orders and grant	or loan condi	tions.		
	Yes (Complete the	e following	table)	$\boxtimes$	No (Go to Item I	V-B)			
	FION OF CONDITION EMENT, ETC.		CTED OUTFA		BRIEF DESCRIPT	ION OF PROJ		COMPLIANCE DATE	
		No.	Source of D	ischarge			Require	riojected	
					-				

**B.** OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

A, B	s, & C:	space provided.	before proceeding V-A, V-B, and V-C				II – Annotate the outf 5-18.	all number in the
D.	which you k	cnow or have reas	ny of the pollutants son to believe is dis you believe it to be	scharged or n	nay be discha	ged from any out	d in Table C-3 of the fall. For every pollutary possession.	instructions, ant you list,
	POLLU	TANT	SOUR			OLLUTANT_		URCE
Chr	omium		Raw materials use manufacture of so refractories/shape	me	Ethylene	glycol	Raw material antifreeze in t of some refrac	the manufacture
VI.	POTENT	IAL DISCHARO	GES NOT COVER	RED BY AN	ALYSIS			
Α.	Is any polluproduce ov	er the next 5 year	n V-C a substance or s as an immediate or s chapter of the pollutants below	or final produ	ent of a substauct or byprodu	nce which you us act? No (Go to Iten	se or produce, or expe	ect to use or
В.	Are your o	perations such th of pollutants may	at your raw materia during the next 5 y	als, processes ears exceed	s, or products two times the	can reasonably be maximum values	expected to vary so reported in Item V?	that your
		Yes (Complete	e Item VI-C)		No (Go to Iten	n VII)		
C.	expected le	wered "Yes" to It evels of such poll sheets if you need	utants which you a	elow and des nticipate will	scribe in detai l be discharge	I to the best of yo d from each outfa	ur ability at this time ill over the next 5 yea	the sources and rs. Continue on

V. INTAKE AND EFFLUENT CHARACTERISTICS

VII. BIOLOGICAL TOXIC	ITY TESTING DATA			
Do you have any knowledge of discharges or on a receiving wat				exicity has been made on any of your
Yes (Identify t	he test(s) and describe their pu	rposes below)	$\boxtimes$	No (Go to Section VIII)
VIII. CONTRACT ANALY	SIS INFORMATION			
	11. 7. 77 6 11	1 1	14: 6:	0
Were any of the analyses report	ed in Item V performed by a co	ntract laborator	y or consulting fir	m?
Yes (list the n	ame, address, and telephone nu	mber of, and po	llutants	No (Go to Section IX)
analyzed	by each such laboratory or fire	m below)		
NAME	ADDRESS		ELEPHONE	POLLUTANTS
Augusta di	1222 State Deute 716		code & number)	pH, Temperature, BOD, TSS,
Appalachian Regional Consultants, Inc.	1222 State Route 716 Ashland, KY 41102	606-928-2	5177	pH, Temperature, BOD, 135, COD, Color, TOC, Hardness, Oil & Grease, Ammonia, Total Aluminum, Total Barium, Total Magnesium, Total Titanium, Total Chromium, Total Zinc
IV CEDTIFICATION				
IX. CERTIFICATION				
	hat this document and all attack	hmants ware nr	enared under my	direction or supervision in accordance
I certify under penalty of law t with a system designed to assur	e that qualified personnel prope	erly gather and e	evaluate the inforn	nation submitted. Based on my inquiry
I certify under penalty of law t with a system designed to assur	e that qualified personnel proper nanage the system, or those per	erly gather and e sons directly re	evaluate the inforn sponsible for gath	nation submitted. Based on my inquiry ering the information, the information
I certify under penalty of law t with a system designed to assur of the person or persons who n submitted is, to the best of my	e that qualified personnel proper nanage the system, or those per knowledge and belief, true, acc	erly gather and e rsons directly re curate, and com	evaluate the inforn sponsible for gath splete. I am aware	nation submitted. Based on my inquiry ering the information, the informatior that there are significant penalties for
I certify under penalty of law t with a system designed to assur of the person or persons who n submitted is, to the best of my submitting false information, in	e that qualified personnel proper nanage the system, or those per knowledge and belief, true, ac- cluding the possibility of fine a	erly gather and or rsons directly recurate, and com and imprisonmen	evaluate the inforn sponsible for gath uplete. I am aware nt for knowing vio	nation submitted. Based on my inquiry ering the information, the informatior that there are significant penalties for lations.
I certify under penalty of law t with a system designed to assur of the person or persons who n submitted is, to the best of my	e that qualified personnel proper nanage the system, or those per knowledge and belief, true, ac- cluding the possibility of fine a	erly gather and or rsons directly recurate, and com and imprisonmen	evaluate the inforn sponsible for gath uplete. I am aware nt for knowing vio	nation submitted. Based on my inquiry ering the information, the informatior that there are significant penalties for
I certify under penalty of law t with a system designed to assur of the person or persons who n submitted is, to the best of my submitting false information, in NAME AND OFFICIAL TITL Michael A. Schalk, Corporate S.	e that qualified personnel proper nanage the system, or those per knowledge and belief, true, acc cluding the possibility of fine a E (type or print):	erly gather and or sons directly recurate, and comund imprisonmen	evaluate the inforn sponsible for gath splete. I am aware nt for knowing vio TELEPHONE NU	
I certify under penalty of law t with a system designed to assur of the person or persons who n submitted is, to the best of my submitting false information, in NAME AND OFFICIAL TITL Michael A. Schalk, Corporate Science and the second statement of the second statement	e that qualified personnel proper nanage the system, or those per knowledge and belief, true, acc cluding the possibility of fine a E (type or print):	erly gather and ersons directly recurate, and com	evaluate the inforn sponsible for gath splete. I am aware nt for knowing vio TELEPHONE NU	nation submitted. Based on my inquiry ering the information, the information that there are significant penalties for lations.  MBER (area code and number):



PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

V. INTAKE AND	EFFLUENT CH		OUTFALL NO. 001										
Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.  2. 3. UNITS EFFLUENT (specify if blank)											4. INTAKE (optional)		
1. POLLUTANT	a. Maximum		b. Maximum 3 (if avai	lable)	c. Long-Term A (if availa	ble)	d. No. of	a. Concentration	b. Mass	a. Long-Term Avg. Value		b.	
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	No of Analyses	
a. Biochemical Oxygen Demand (BOD)	74.00	0 43.71	38.75	14.56	17.10	3.39	48	mg/l	lbs./day				
b. Chemical Oxygen Demand (COD)	224.00		78.35	16.06	52.47	7.67	48	mg/l	lbs./day				
c. Total Organic Carbon (TOC)	73.40	9.37	24.60	3.30	7.98	1.05	48	mg/l	lbs./day				
d. Total Suspended Solids (TSS)	51.50	) 12.19	25.50	3.75	9.91	1.58	48	mg/l	lbs./day				
e. Ammonia (as N)													
f. Flow (in units of MGD)	VALUE	0.144	VALUE	0.048	VALUE	0.022	48		MGD	VALUE			
g. Temperature (winter)	VALUE	17.0	VALUE	15.0	VALUE		24		°c	VALUE			
h. Temperature (summer)	VALUE	25.0	VALUE	23.8	VALUE	20.2	24		°c	VALUE			
i. pH	MINIMUM 6.54	MAXIMUM 8.43	MINIMUM 7.31	MAXIMUM 8.12			48	STAND	DARD UNITS				

5

Part B - In the MARK "X" column, place an "X" in the <u>Believed Present</u> column for each pollutant you know or have reason to believe is present. Place an "X" in the <u>Believed Absent</u> column for each pollutant you believe to be absent. If you mark the <u>Believed Present</u> column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

requirements.		<del></del>												
1. POLLUTANT	MAR	2. K "Y"			FF	3. FLUENT				4. UNIT	re	INTEAT	6.	
AND CAS NO.	a.	b.	a. Maximum Da	ily Value	b. Maximum 3 Value (if avai	0-Day	c. Long-Terr Value (if ava		d. No. of	a.	b.	a. Long-Term Value	KE (option 1 Avg	b. No. of
(if available)	Believed Present	Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses	Concentrati on	Mass	(1) Concentration	(2) Mass	Analyses
a. Bromide (24959-67-9)		Х												
b. Bromine Total Residual		Х	-											
c. Chloride		X												<b></b>
d. Chlorine, Total														
Residual		Х												
e. Color f. Fecal	Х		2.00		1.50		1.08		48	ADMI				
Coliform g. Fluoride		х												
(16984-48-8)		х												<u> </u>
h. Hardness (as CaCO <sub>3</sub> )	Х		360.00	294.24	277.50	100.66	209.77	36.95	48	mg/l	lbs./day			
i. Nitrate – Nitrite (as N)		Х												
j. Nitrogen, Total Organic														
k. Oil and Grease		Х	10.00								-			
I. Phosphorous (as P), Total	X		12.07	14.50	9.45	4.30	2.66	0.74	48	mg/l	lbs./day			
7723-14-0 m.		Х												
Radioactivity		1												
(1) Alpha, Total		Х												
(2) Beta, Total		Х												
(3) Radium Total		Х												
(4) Radium, 226, Total		Х												

Part B - Continu	ed													
1. POLLUTANT		2. K "X"				3. FLUENT				4. UNITS		INTAI	5. KE (option	nal)
And CAS NO.	a.	b.	a. Maximum Dail		b. Maximum 3 Value (if avai	lable)	c. Long-Terr Value (if ava		d. No. of	a.	b.	a. Long-Term Avg		b. No. of
(if available)	Believed Present	Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses	Concentration	Mass	(1) Concentration	(2) Mass	Analyses
n. Sulfate (as SO <sub>4</sub> ) (14808-79-8)		х						_						
o. Sulfide (as S)		Х												
p. Sulfite (as SO <sub>4</sub> ) (14286-46-3)		х												- 112
q. Surfactants		х												
r. Aluminum, Total (7429-90)	Х													
s. Barium, Total (7440-39-3)	Х													
t. Boron, Total (7440-42-8)		х												
u. Cobalt, Total (7440-48-4)		х												
v. Iron, Total (7439-89-6)		х												
w. Magnesium Total (7439-96-4)	х													
x. Molybdenum Total (7439-98-7)		х												
y. Manganese, Total (7439-96-6)		Х												
z. Tin, Total (7440-31-5)		Х												
aa. Titanium, Total (7440-32-6)	Х													

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X: in the Believed Absent column for each pollutant you believe to be absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

1.		2. MARK "X"		ns for additional de			3. LUENT				4. UNITS		INTAK	5. Œ (optiona	nD
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail		b. Maximum 3 Value (if avail	able)	c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	a. Long-Term Av		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	•
METALS, CYAN	TIDE AND T	OTAL PHE	NOLS										* ******	<u> </u>	
1M. Antimony														T	1
Total												l			
(7440-36-0)			X							ĺ					
2M. Arsenic,															
Total															
(7440-38-2)			X												1
3M. Beryllium															
Total															
(7440-41-7)			X												
4M. Cadmium						İ									
Total (7440-43-9)			.,									i .			
5M. Chromium			X												
Total															
(7440-43-9)		х													
6M. Copper		^	<del>                                     </del>												
Total															
(7550-50-8)			x												
7M. Lead															
Total															
(7439-92-1)			x												
8M. Mercury															
Total															
(7439-97-6)			x												
9M. Nickel,															
Total															1
(7440-02-0)			X												
10M. Selenium,															
Total															
(7782-49-2)			X												
11M. Silver,															
Total									ļ						
(7440-28-0)			X												

Part C - Continu	ied												- Arms		
1.		2. MARK <u>"X"</u>				EFF	3. LUENT				4. UNITS			5. Œ (option:	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	y Value	b. Maximum 3 Value (if avai		c. Long-Term Value (if avai		d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	Analyses
METALS, CYAN	NIDE AND T	OTAL PHE	NOLS (Con	tinued)				· · · · · · · · · · · · · · · · · · ·				4	<u> </u>	h	· · · · · · · · · · · · · · · · · · ·
12M. Thallium, Total															
(7440-28-0) 13M. Zinc,			X							<b>_</b>					
Total (7440-66-6)		x													
14M. Cyanide, Total															
(57-12-5)			X							i					
15M. Phenols, Total															
			X												
DIOXIN 2,3,7,8 Tetra-			1	DECORINE DEC											
chlorodibenzo,				DESCRIBE RES	ULIS:										
P, Dioxin (1784-01-6)			х												
GC/MS FRACTI	ON – VOLA	TILE COM	POUNDS	l											
1V. Acrolein (107-02-8)			X												
2V.															
Acrylonitrile (107-13-1)			х												
3V. Benzene (71-43-2)			Х												
5V. Bromoform (75-25-2)			Х												
6V. Carbon Tetrachloride															
(56-23-5) 7V. Chloro-			X												
benzene (108-90-7)			x												
8V.			- 1												
Chlorodibro- momethane															
(124-48-1)			x												

Part C - Continu	ıed													*	
1.		2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (option:	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily		b. Maximum 3 Value (if avai	0-Day lable)	c. Long-Term Value (if avai		d. No. of	a. Concentration	b. Mass	a. Long-Term Av		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
9V. Chloroethane (74-00-3)			x												
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			х												
11V. Chloroform (67-66-3)			х												
12V. Dichloro- bromomethane (75-71-8)			х												
14V. 1,1- Dichloroethane (75-34-3)			х												
15V. 1,2- Dichloroethane (107-06-2)			х												
16V. 1,1- Dichlorethylene (75-35-4)			х												
17V. 1,2-Di- chloropropane (78-87-5)			х												
18V. 1,3- Dichloropro- pylene (452-75-6)			х												
19V. Ethylbenzene (100-41-4)			Х												
20V. Methyl Bromide (74-83-9)			Х												

Part C - Continu		2.					3.				4.			5.	
1,	]	MARK "X"				EFF	LUENT				UNITS		INTAK	E (options	ıl)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily		b. Maximum 3 Value (if avail	able)	c. Long-Term Value (if avail	lable)	d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g. Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
21V. Methyl Chloride (74-87-3)			х												
22V. Methylene Chloride (75-00-2)			Х												
23V. 1,1,2,2- Tetrachloro- ethane (79-34-5)			х												
24V. Tetrachloro- ethylene (127-18-4)			х												
25V. Toluene (108-88-3)			x												
26V. 1,2-Trans- Dichloro- ethylene (156-60-5)			х												
27V. 1,1,1-Tri- chloroethane (71-55-6)			Х												
28V. 1,1,2-Tri- chloroethane (79-00-5)			X												
29V. Trichloro- ethylene (79-01-6)			х												
30V. Vinyl Chloride (75-01-4)			х												

		2.					3.				4.			5.	
1.		MARK "X"				EFF	LUENT				UNITS		INTAK	- 5. E (options	al)
POLLUTANT													a.	(op. 1011)	b.
And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	y Value	b. Maximum 3 Value (if avail		c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	Long-Term Av	g Value	No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses		1.1400	(1) Concentration	(2) Mass	1
GC/MS FRACTI	ON – ACID (	COMPOUN	DS							•					
1A. 2-Chloro-															
phenol															•
(95-57-8)			X												
2A. 2,4-															† <del>-</del>
Dichlor-															
Orophenol			X												
(120-83-2)															
3A.															<del>                                     </del>
2,4-Dimeth-															
ylphenol			x		i										
(105-67-9)															
4A. 4,6-Dinitro-															
o-cresol															
(534-52-1)			Х												
5A. 2,4-Dinitro-															<del> </del>
phenol					i								į		
(51-28-5)			x												
6A. 2-Nitro-				-											
phenol															1
(88-75-5)			х												l
7A. 4-Nitro-															
															1
phenol (100-02-7)										]					1
			X									710			L
8A. P-chloro-m-										l i					
cresol															
(59-50-7)			X												
9A.															
Pentachloro-	l														1
phenol			X												l
(87-88-5)										<u> </u>					
10A. Phenol															
(108-05-2)			X								-	1			
11A. 2,4,6-Tri-															
chlorophenol															i
(88-06-2)			X												l
GC/MS FRACTI	ON - BASE/	NEUTRAL	COMPOUN	DS						<u></u>					
1B. Acena-											T				
phthene															
(83-32-9)			Х							1					ı

Part C - Continu	ıed														
1.		2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (option:	
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily		b. Maximum 3 Value (if avai	lable)	c. Long-Term Value (if avai	lable)	d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	1
GC/MS FRACT	ON - BASE/	NEUTRAL	COMPOUN										Concentration	171433	
2B. Acena- phtylene (208-96-8)			x												
3B. Anthra- cene (120-12-7)			x												
4B. Benzidine (92-87-5)			x												
5B. Benzo(a)- anthracene															
(56-55-3) 6B. Benzo(a)-			X												
pyrene (50-32-8)			Х												
7B. 3,4-Benzo- fluoranthene (205-99-2)			x												
8B. Benzo(ghl) perylene (191-24-2)			х								"				
9B. Benzo(k)- fluoranthene (207-08-9)			x		·										
10B. Bis(2- chlor- oethoxy)- methane (111-91-1)			х												
11B. Bis (2-chlor- oisopropyl)- Ether			х		7/5435										
12B. Bis (2-ethyl- hexyl)- phthalate (117-81-7)			х												

Part C – Continu	T	2,		I			3.				4.		1	5.	
1.		MARK "X"		İ		EFF	LUENT				UNITS		INTAK	5. E (options	al)
POLLUTANT													a.	(	b.
And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	y Value	b. Maximum 3 Value (if avai		c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	Long-Term Av	g Value	No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	1
GC/MS FRACTI	ON – BASE/	NEUTRAL	COMPOUN	DS (Continued)			-		1				Concentration	Mass	L
13B. 4-Bromo-															
phenyl															1
Phenyl ether (101-55-3)			х												
14B. Butyl-		-													<del>                                     </del>
benzyl															
phthalate			x			1	İ								
(85-68-7)										1					
15B. 2-Chloro-							<b> </b>					-		<u> </u>	<del></del>
naphthalene															
(7005-72-3)			x									Ì			
16B. 4-Chloro-															<del>                                     </del>
phenyl					İ										
phenyl ether			x												
(7005-72-3)															
17B. Chrysene															ĺ
(218-01-9)			X												1
18B. Dibenzo-						ļ									
(a,h)															ſ
Anthracene			X												
(53-70-3)															1
19B. 1,2-															
Dichloro-															i
benzene			X												ĺ
(95-50-1)															1
20B. 1,3-													"		
Dichloro-											Ī				İ
Benzene			X												i İ
(541-73-1)															l
21B. 1,4-															
Dichloro-															l
benzene			Х												ı
(106-46-7)															
22B. 3,3-															
Dichloro-															
benzidene (91-94-1)			Х												
23B. Diethyl															
Phthalate															
(84-66-2)			х												
(0-7 00-2)			^				L								

Part C - Continu	ied														
1.	]	2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (options	 al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	y Value	b. Maximum 3 Value (if avail		c. Long-Term Value (if avail	Avg. lable)	d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g. Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTI	ION – BASE/	NEUTRAL	COMPOUN	DS (Continued)											
24B. Dimethyl Phthalate (131-11-3)			x												
25B. Di-N- butyl Phthalate (84-74-2)			X												
26B. 2,4-Dinitro- toluene			x												
(121-14-2) 27B.															<u> </u>
2,6-Dinitro- toluene (606-20-2)			х												
28B. Di-n-octyl Phthalate (117-84-0)			X												
29B. 1,2- diphenyl- hydrazine (as azonbenzene)			х												
(122-66-7) 30B. Fluoranthene (208-44-0)			X												
31B. Fluorene (86-73-7)			X												
32B. Hexachloro- benzene (118-71-1)			x												
33B. Hexachloro- butadiene (87-68-3)			х												
34B. Hexachloro- cyclopenta- diene			х												
(77-47-4)															

Part C - Continu	ued								***		y				
1.		2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (option:	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	y Value	b. Maximum 3 Value (if avai		c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	1
GC/MS FRACT	ION - BASE/	NEUTRAL	COMPOUN	DS (Continued)				-		L				1	
35B. Hexachlo- roethane (67-72-1)			x												
36B. Indneo-			^												
(1,2,3-oc)- Pyrene (193-39-5)			x												
37B. Isophorone															
(78-59-1) 38B.			X												
Napthalene (91-20-3)			Х												
39B. Nitro- benzene			x												
(98-95-3) 40B. N-Nitroso-			X												
dimethyl- amine (62-75-9)			x												
V-nitrosodi-n- propylamine (621-64-7)			x												
42B. N-nitro- sodiphenyl- amine (86-30-6)			х								:				
43B. Phenan- threne (85-01-8)			Х												
44B. Pyrene (129-00-0)			x												
45B. 1,2,4 Tri- chloro- benzene (120-82-1)			х												

Part C – Continu	ied														
1.		2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (optiona	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	y Value	b. Maximum 3 Value (if avail		c. Long-Term Value (if avail	Avg. lable)	d. No. of	a. Concentration	b. Mass	a. Long-Term Avg	g. Value	b. No. of Analyses
(if available) GC/MS FRACTI	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACT	ION - PESTI	LIDES			г	I			т	1		T	l		
1P. Aldrin (309-00-2)			Х												
2P. α-BHC (319-84-6)			х												
3P. β-BHC (58-89-9)			х												
4P. gamma-BHC (58-89-9)			х												
5P. δ-BHC (319-86-8)			х												
6P. Chlordane (57-74-9)			х												
7P. 4,4'-DDT (50-29-3)			х												
8P. 4,4'-DDE (72-55-9)			x												
9P. 4,4'-DDD (72-54-8)			х												
10P. Dieldrin (60-57-1)			х												
11P. α- Endosulfan (115-29-7)			х												
12P. β- Endosulfan (115-29-7)			х												
13P. Endosulfan Sulfate (1031-07-8)			х												
14P. Endrin (72-20-8)			х												

Part C - Continu		2.					3.				4.			5.	
1.		MARK "X"				EFF	LUENT				UNITS		INTAK	E (options	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily		b. Maximum 3 Value (if avai	lable)	c. Long-Term Value (if avai		d. No. of	a. Concentration	b. Mass	a. Long-Term Av		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACT	ION – PESTI	CIDES			•					<u> </u>					
15P. Endrin Aldehyde (7421-93-4)			X												
16P Heptachlor (76-44-8)			x												
17P. Heptaclor Epoxide (1024-57-3)			х												
18P. PCB-1242 (53469-21-9)			x												
19P. PCB-1254 (11097-69-1)			х												
20P. PCB-1221 (11104-28-2)			x												
21P. PCB-1232 (11141-16-5)			x												
22P. PCB-1248 (12672-29-6)			x												
23P. PCB-1260 (11096-82-5)			х												
24P. PCB-1016 (12674-11-2)			х												
25P. Toxaphene (8001-35-2)			Х												

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

V. INTAKE AND	EFFLUENT CH	ARACTERIST	TICS (Continued for	rom page 3 of Fo	rm C)					OUTFALL NO.	002	
Part A – You must	provide the result	s of at least one	analysis for every p	2.	ole. Complete one tab	ole for each outfa	II. See instructions	3. UNI	TS		, INTAKE	
1. POLLUTANT	a. Maximum	Daily Value	b. Maximum 3 (if avai		c. Long-Term . (if availa		d. No. of	(specify if a.  Concentration	blank) b. Mass	a. Long-Term A	(optional) Avg. Value	b.
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	No of Analyses
Biochemical     Oxygen Demand     (BOD)												
b. Chemical Oxygen Demand (COD)												
c. Total Organic Carbon (TOC)												
d. Total Suspended Solids (TSS)	33.00	18.55	33.00	18.55	11.04	2.95	12	mg/l	lbs./day			
e. Ammonia (as N)												
f. Flow (in units of MGD)	VALUE	0.144	VALUE	0.144	VALUE	0.027	12		MGD	VALUE		
g. Temperature (winter)	VALUE		VALUE		VALUE				°c	VALUE	-	
h. Temperature (summer)	VALUE		VALUE		VALUE				°c	VALUE		
i. pH	MINIMUM 6.03	MAXIMUM 8.31	MINIMUM 6.03	MAXIMUM 8.31			12	STAN	DARD UNITS			

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1   1   1   1   1   1   1   1   1   1	requirements.														
No CASNO   Fire of the process of	1.					FF	3.						INIT'A I	6.	.15
Part of Par				a. Maximum Da	ily Value			c Long-Term	η Δνσ	4	UN	115			
Content   Cont	11.12 6.151101		"		,						a.	ь.	Value	Avg	
Bronde   Cases   Absent   Concentration   Mass   Concentration   Mass   Concentration   Mass   Concentration   Cases	(if available)									Analyses				(2)	ł
(2495-67-5)		Present	Absent	Concentration	Mass	Concentration	Mass	Concentration	Mass		tion		Concentration	Mass	
Description   Property   Description   Des															
Total   Residual   X			X												
Residual															
Color			х												
Color															
Total   Residual   X			Х		_										
Residual															
E. Color X			x												
f. Feeal Coliform       X       S							-								
Coliform   X		X													
Fluoride (16984-48-8)   X			.,												
Companies   Comp			^												
h. Hardness (as CaCO <sub>3</sub> ) X			x												
i. Nitrate — Nitrite (as N)	h. Hardness	,													
Nitrite (as N)		X													
j. Nitrogen, Total Organic (as N)  k. Oil and Grease X 6.40 4.32 6.40 4.32 3.52 0.84 12 mg/l lbs./day    lbs./day   lbs./			v												
Total Organic (as N)			^												
(as N)															
K. Oil and Grease   X															
Grease   X			X												
1. Phosphorous (as P), Total		x		640	4 32	6.40	4 32	3 52	0.84	12	ma/l	lha /day			
(as P), Total 7723-14-0 X				0.10	1,32	0.40	7.32	3.32	0.64	12	ilig/i	ios./day			
M.   Radioactivity	(as P), Total														
Radioactivity			X												
(1) Alpha,															
Total   X						***		-		·				— т	
Total   X	Total		Х												
(3) Radium Total X  (4) Radium,	(2) Beta,										*****				
Total X (4) Radium,			X												
(4) Radium,			x												
			- 1.									_			
			X												

6

Part B - Continu		2.	Γ		<del></del>	3.				,		1		
I. POLLUTANT		z. K "X"			EF	3. FLUENT				4. UNITS		INTAL	5. (E (option	al)
And CAS NO.	a.	b.	a. Maximum Dail	v Value	b. Maximum 3 Value (if avai	0-Day	c. Long-Terr Value (if ava		d. No. of	a,	b.	a. Long-Term Avg		b. No. of
(if available)	Believed Present	Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses	Concentration	Mass	(1) Concentration	(2) Mass	Analyses
n. Sulfate (as SO <sub>4</sub> )	1100011	X		114405	Concentration	172435	Concentration	171433				Concentration	IVIASS	
(14808-79-8)														
o. Sulfide (as S)		х											1	
p. Sulfite (as SO <sub>4</sub> ) (14286-46-3)		Х									""			
q. Surfactants		х										17 (* 1/)		
r. Aluminum, Total (7429-90)	х				-107-11									
s. Barium, Total (7440-39-3)	Х													
t. Boron, Total (7440-42-8)		Х												
u. Cobalt, Total (7440-48-4)		Х												
v. Iron, Total (7439-89-6)		Х												
w. Magnesium Total (7439-96-4)	x													
x. Molybdenum Total (7439-98-7)		Х												
y. Manganese, Total (7439-96-6)		Х												-
z. Tin, Total (7440-31-5)		X												
aa. Titanium, Total (7440-32-6)	х													

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X: in the Believed Absent column for each pollutant you believe to be absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

one tuere (un serve	pages) for e	2.		iis for additional de			3.				4.			5,	
1.	]	MARK "X"				EFF	LUENT				UNITS		INTAK	E (optiona	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily		b. Maximum 3 Value (if avai	able)	c. Long-Term Value (if avai	lable)	d. No. of	a. Concentration	b. Mass	a. Long-Term Av		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
METALS, CYAN	IDE AND T	OTAL PHE	NOLS												
1M. Antimony															T
Total															
(7440-36-0)			X												
2M. Arsenic, Total					-										
(7440-38-2)			x												
3M. Beryllium					<u> </u>										
Total												i			
(7440-41-7)			X												
4M. Cadmium															
Total (7440-43-9)			.,												
5M. Chromium			X												
Total															
(7440-43-9)		Х													
6M. Copper															
Total															
(7550-50-8)			X												
7M. Lead Total															
(7439-92-1)			х												
8M. Mercury															
Total															
(7439-97-6)			X												
9M. Nickel,															
Total (7440-02-0)															
10M. Selenium,			X												
Total															
(7782-49-2)			x												
11M. Silver,										-					
Total															
(7440-28-0)			X												

Part C - Continu	ed														
1.		2. MARK "X"				EFF	3. LUENT	4	7006		4. UNITS		INTAK	5. E (option:	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	y Value	b. Maximum 3 Value (if avai		c. Long-Term Value (if avai		d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	Analyses
METALS, CYAN	NIDE AND T	OTAL PHE	NOLS (Con	tinued)											
12M. Thallium, Total (7440-28-0)			x												
13M. Zinc, Total (7440-66-6)		х													
14M. Cyanide, Total		^													
(57-12-5) 15M. Phenols, Total			X												
DIOXIN			X						<u> </u>						L
2,3,7,8 Tetra-				DESCRIBE RES	H.TS:										
chlorodibenzo, P, Dioxin (1784-01-6)			x												
GC/MS FRACTI	ON – VOLA	TILE COM	POUNDS							*****					
1V. Acrolein (107-02-8)			х												
2V. Acrylonitrile (107-13-1)			х												
3V. Benzene (71-43-2)			Х												
5V. Bromoform (75-25-2)			х												
6V. Carbon Tetrachloride (56-23-5)			x												
7V. Chloro- benzene (108-90-7)			х												
8V. Chlorodibro- momethane															
(124-48-1)			х												

Part C - Continu	i i	2.		I			3.				4,				
1.		MARK "X"				EFF	LUENT				UNITS		INTAK	5. Œ (optiona	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily		b. Maximum 3 Value (if avai	lable)	c. Long-Term Value (if avail	lable)	d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
9V.													Concentration		
Chloroethane (74-00-3)			X						:						
10V. 2-Chloro-															<u> </u>
ethylvinyl Ether (110-75-8)			х												
11V.															
Chloroform															
(67-66-3)			X		ĺ					!					
12V. Dichloro-															ļ
bromomethane															
_(75-71-8)			X												
14V. 1,1-															
Dichloroethane															
(75-34-3)			X												
15V. 1,2-															
Dichloroethane															
(107-06-2)			Х												
16V. 1,1-															
Dichlorethylene															
(75-35-4) 17V. 1,2-Di-			X												
chloropropane									İ						1
(78-87-5)			x												1
18V. 1,3-															
Dichloropro-															
pylene			х												
(452-75-6)											i				
19V. Ethyl-										-					-
benzene															
(100-41-4)			X												
20V. Methyl															
Bromide															
(74-83-9)			х												

Part C - Continu	<u> </u>	2.		1			3.				4.		1	5.	
1.	i	MARK "X"				EFF	LUENT				UNITS		INTAK	E (options	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	y Value	b. Maximum 3 Value (if avai	0-Day	c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	a. Long-Term Av		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	1
21V. Methyl													Concentration	111133	
Chloride															
(74-87-3)			X												
22V. Methylene															
Chloride															
(75-00-2)			X											_	
23V. 1,1,2,2-															
Tetrachloro-										ļ					
ethane			Х												
(79-34-5) 24V.					-										ļ
Z4 V. Tetrachloro-		ļ													
ethylene			X												
(127-18-4)			^												
(127-10-4)					-										
25V. Toluene										1					
(108-88-3)			х				l								
26V. 1,2-Trans-				~											
Dichloro-															
ethylene		i	X												
(156-60-5)															
27V. 1,1,1-Tri-															
chloroethane															
(71-55-6)			X												
28V. 1,1,2-Tri-						1	1								
chloroethane						1									
(79-00-5)			X												
29V. Trichloro-															
ethylene (79-01-6)			x												
	-					****									
30V. Vinyl Chloride					1				İ						
(75-01-4)			x			1							ļ		
(13-01-4)	L	L	^			L	L			L		L			I

Part C - Continu	iea			T			3				I .		I		
1.	1	2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (optiona	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	y Value	b. Maximum 3 Value (if avai		c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	a. Long-Term Av		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	1
GC/MS FRACTI	ON – ACID	COMPOUN	IDS			1			1	· · · · · · · · · · · · · · · · · · ·		I	Concentration	141433	1
1A. 2-Chloro-															
phenol	İ														1
(95-57-8)			X		İ										
2A. 2,4-															
Dichlor-								İ							
Orophenol			X												İ
(120-83-2)															
3A.					l							-			
2,4-Dimeth-	i						-								
ylphenol			x												
(105-67-9)												[ ]			
4A. 4,6-Dinitro-															
o-cresol												li			
(534-52-1)			x												
5A. 2,4-Dinitro-										<del> </del>					<del> </del>
phenol															
(51-28-5)			X												
6A. 2-Nitro-															-
phenol							i								
(88-75-5)			x												1
7A. 4-Nitro-										-					<del> </del>
phenol											İ				1
(100-02-7)			х												1
8A. P-chloro-m-															
cresol															ſ
(59-50-7)			х												
9A.			- 1							-					<b>-</b>
Pentachloro-															1
phenol			Х												l
(87-88-5)															1
( 00 -)		_				-									<del></del>
10A, Phenol															
(108-05-2)			Х								İ				i
11A. 2,4,6-Tri-	-		1												<del></del>
chlorophenol															İ
(88-06-2)			x												İ
GC/MS FRACTI	ON - BASE	VELITRAI		DS											<u> </u>
IB. Acena-	DAGE/	LUINAL	COMITOUR	DG						<del></del>					
phthene												ļ			ı
(83-32-9)			x									İ			1
(03-32-7)	l		_ ^							l					

Part C - Continu	ied														
1.		2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (option:	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail		b. Maximum 3 Value (if avai	lable)	c. Long-Term Value (if avai	lable)	d. No. of	a. Concentration	b. Mass	a. Long-Term Av		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTI	ION - BASE/	NEUTRAL	COMPOUN	DS (Continued)	L	·				-I			Concentration	111433	1
2B. Acena- phtylene (208-96-8)			x												
3B. Anthra- cene (120-12-7)			x												
4B. Benzidine (92-87-5)			x												
5B. Benzo(a)- anthracene															
(56-55-3) 6B. Benzo(a)-			X						-						
pyrene (50-32-8)			х												
7B. 3,4-Benzo- fluoranthene (205-99-2)			x									·			
8B. Benzo(ghl) perylene (191-24-2)			х												
9B. Benzo(k)- fluoranthene (207-08-9)			х												
10B. Bis(2- chlor- oethoxy)- methane (111-91-1)			х												
11B. Bis (2-chlor- oisopropyl)- Ether			х												
12B. Bis (2-ethyl- hexyl)- phthalate (117-81-7)			х											-	

Part C - Continu	ed														
1.		2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (options	ıl)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	v Value	b. Maximum 3 Value (if avai		c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTI	ON – BASE/	NEUTRAL	COMPOUN	DS (Continued)											
13B. 4-Bromo-															
phenyl															
Phenyl ether			X												
(101-55-3)															
14B. Butyl-															
benzyl															
phthalate			X												
(85-68-7) 15B. 2-Chloro-			-		-		<del>                                     </del>		ļ						
naphthalene															
(7005-72-3)			x												
16B. 4-Chloro-			^				<del> </del>								
phenyl					1										
phenyl ether	İ		x												
(7005-72-3)															
(1003 /2 3)								<del> </del>							
17B. Chrysene							1								
(218-01-9)			х												
18B. Dibenzo-							<b>1</b>								
(a,h)															
Anthracene			X												
(53-70-3)															
19B. 1,2-															
Dichloro-															
benzene			X												
(95-50-1)															
20B. 1,3-			ļ							1					
Dichloro-			x		İ					1					
Benzene			^												
(541-73-1)			<del> </del>			-	ļ								<del> </del>
21B. 1,4- Dichloro-															
benzene			x												
(106-46-7)			^												
22B. 3,3-			<u> </u>		<del> </del>		1		<b></b>						
Dichloro-	1							1						1	
benzidene			X	1											
(91-94-1)	1		"												
23B. Diethyl			<u> </u>		1		l								<u> </u>
Phthalate	1			1											
(84-66-2)		1	х												

Part C - Continu	ied														
1,		2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (optiona	d)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	v Value	b. Maximum 3 Value (if avai	0-Day	c. Long-Term Value (if avail	Avg.	d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g. Value	b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTI	ION - BASE/	NEUTRAL	COMPOUN	DS (Continued)											
24B. Dimethyl Phthalate															
(131-11-3)			X												1
25B. Di-N- butyl Phthalate															
(84-74-2)			X						ļ						
26B. 2,4-Dinitro- toluene			x												
(121-14-2)			<u> </u>												
27B. 2,6-Dinitro- toluene			x												
(606-20-2)	i														1
28B. Di-n-octyl Phthalate															
(117-84-0)			X												
29B. 1,2- diphenyl-			x												
hydrazine (as azonbenzene) (122-66-7)			_ ^												
30B. Fluoranthene															
(208-44-0)			Х												<b></b>
31B. Fluorene (86-73-7)			x												
32B. Hexachloro-															
benzene (118-71-1)			Х												
33B. Hexachloro-			x												
butadiene (87-68-3)			^												
34B. Hexachloro- cyclopenta-			x												
diene (77-47-4)														_	

Part C - Continu	1	2.		I			3.				4.			5.	
1.	MARK "X"				S. EFFLUENT								INTAK	ວ. E (options	al)
POLLUTANT And CAS NO.	a. Testing Required	a. Believed	b.	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of	units a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses
(if available)		Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses	Concentration	171455	(1) Concentration	(2) Mass	1 . Luaiyses
GC/MS FRACTI	ON - BASE/	NEUTRAL	COMPOUN			1			1.1400			1	Concentration	171433	<del></del>
35B. Hexachlo- roethane			.,												
(67-72-1) 36B. Indneo-			X							-					
(1,2,3-oc)- Pyrene			x												
(193-39-5)			^												
37B. Isophorone															
(78-59-1) 38B.			X												<u> </u>
Napthalene (91-20-3)			x												
39B. Nitro-															
benzene (98-95-3)			Х												
40B. N-Nitroso- dimethyl-															
amine (62-75-9)			Х												
41B. N-nitrosodi-n- propylamine			x						41.11						
(621-64-7) 42B. N-nitro-			^												
sodiphenyl- amine (86-30-6)			x												
43B. Phenan- threne (85-01-8)			x												
44B. Pyrene			, A												
(129-00-0)			х												
45B. 1,2,4 Tri- chloro- benzene (120-82-1)			x												

Part C - Continu	ed														
1.		2. MARK "X"			EFF	4. UNITS		5. INTAKE (optional)							
POLLUTANT And CAS NO.	a.	a. Believed Present	b. Believed	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of	a. Concentration	b. Mass	a. Long-Term Avg. Value		b. No. of Analyses
(if available)				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTI	ON - PESTI	CIDES													
1P. Aldrin (309-00-2)			Х												
2P. α-BHC (319-84-6)			х												
3P. β-BHC (58-89-9)			x												
4P. gamma-BHC (58-89-9)			х												
5P. δ-BHC (319-86-8)			х												
6P. Chlordane (57-74-9)			х												
7P. 4,4'-DDT (50-29-3)			х												
8P. 4,4'-DDE (72-55-9)			х												
9P. 4,4'-DDD (72-54-8)			х												
10P. Dieldrin (60-57-1)			х												
11P. α- Endosulfan (115-29-7)			x												
12P. β- Endosulfan (115-29-7)			x											_	
13P. Endosulfan Sulfate (1031-07-8)			x												
14P. Endrin (72-20-8)			Х												

Part C - Continu	ied						3.								
1.	2. MARK "X"				EFF	4. UNITS		5. INTAKE (optional)							
POLLUTANT And CAS NO. (if available)	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTI	ON – PESTI	CIDES													
15P. Endrin Aldehyde (7421-93-4)			x												
16P Heptachlor (76-44-8)			х												
17P. Heptaclor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			х												
20P. PCB-1221 (11104-28-2)			x												
21P. PCB-1232 (11141-16-5)			х												
22P. PCB-1248 (12672-29-6)			х												
23P. PCB-1260 (11096-82-5)			x												
24P. PCB-1016 (12674-11-2)			х												
25P. Toxaphene (8001-35-2)			X												



ERNIE FLETCHER
GOVERNOR

#### **ENVIRONMENTAL AND PUBLIC PROTECTION CABINET**

LAJUANA S. WILCHER SECRETARY

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER

14 REILLY ROAD

FRANKFORT, KENTUCKY 40601-1190 www.kentucky.gov

September 16, 2005

OCT 2 7 2005
SECOND NOTICE

Mr. Harry McElrath \
North American Refractories Company
Post Office Box 457
South Shores, Kentucky 41175-0457

Re:

KPDES No.: KY0000311

North American Refractories Company

Greenup County, Kentucky

Dear Mr. McElrath:

Our records indicate that your Kentucky Pollutant Discharge Elimination System (KPDES) permit is due to expire on April 30, 2006. According to KPDES Regulation 401 KAR 5:060, "any person with a currently effective permit shall submit a new application at least 180 days before the expiration of the existing permit..." The due date for your permit renewal application is October 31, 2005.

Please complete the enclosed application forms and return to the KPDES Branch, Division of Water, at the above address by the indicated due date. Applications received after the due date are in violation of 401 KAR 5:060, Section 1, which could result in enforcement action being taken.

If you have any questions regarding the completion of these forms, please contact me at (502) 564-2225, extension 465.

Sincerely,

Courtney Seitz, Supervisor

Inventory and Data Management Section

KPDES Branch

Division of Water

CS:TJB:tjb Enclosures

c: Morehead Regional Office Division of Water Files



# AP Green NARCO Harbison-Walker

## **ANH** Refractories Company

RECEIVED BY MPDES BR Oherrington Corporate Center 400 Fairway Drive 2: 58Moon Township, PA 15108

October 27, 2005

Department for Environmental Protection Division of Water KPDES Branch Frankfort Office Park 14 Reilly Road Frankfort, KY 40601

Subject: North American Refractories Co. South Shore Plant, South Shore, KY KPDES #KY0000311

Dear Sics:

Please find attached two duly signed copies of the application requesting renewal of the water discharge permit which expires April 30, 2006. This submittal includes KPDES Form 1 pages 1 - 3 and KPDES Form C pages 1 - 4. These two sections cover basic information for the facility. The outfall sampling and test information is covered in Form C pages 5 - 18.

For outfall #901, past values were compiled and reported on forms where appropriate. Additional testing has been requested for some total metals but the results are not available at this time. These values should be available shortly and this section will be updated.

For sorfall 2002, as above, past values were also compiled and reported. This outfall is a storm water outfall and additional analysis has been requested. These analysis include some total metals and listed Part A pollutants. When these results are available, the forms will be updated.

Included is check #206481 dated. October 27, 2005 in the amount of \$420.00 which covers the application fee for renewal of the KPDES permit for the North American Refractories. South Shore facility. Please reference permit #KY0000311.

If you have any questions, you can contact me at 412-375-6632.

Sincerely

Our Hunsberger
47